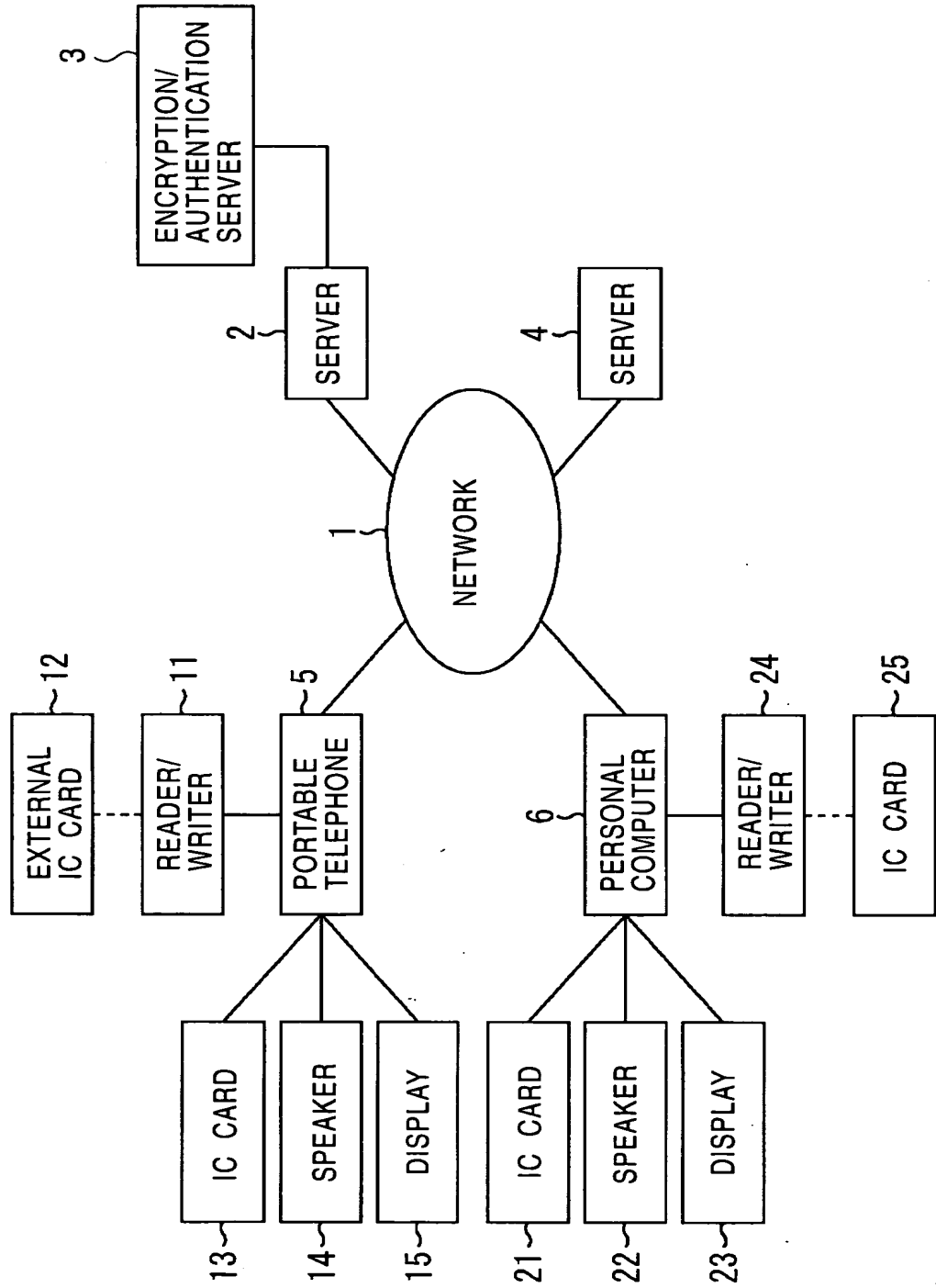


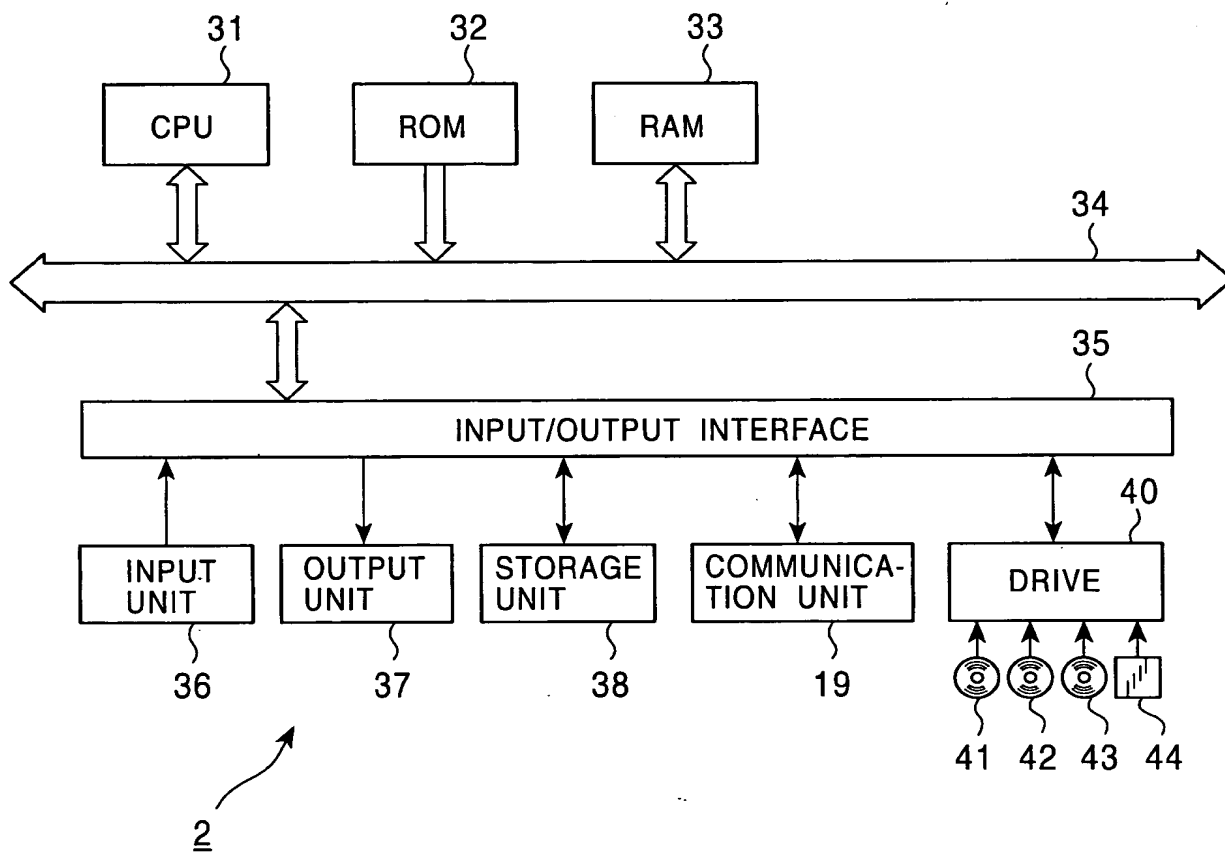
1 / 24

FIG. 1



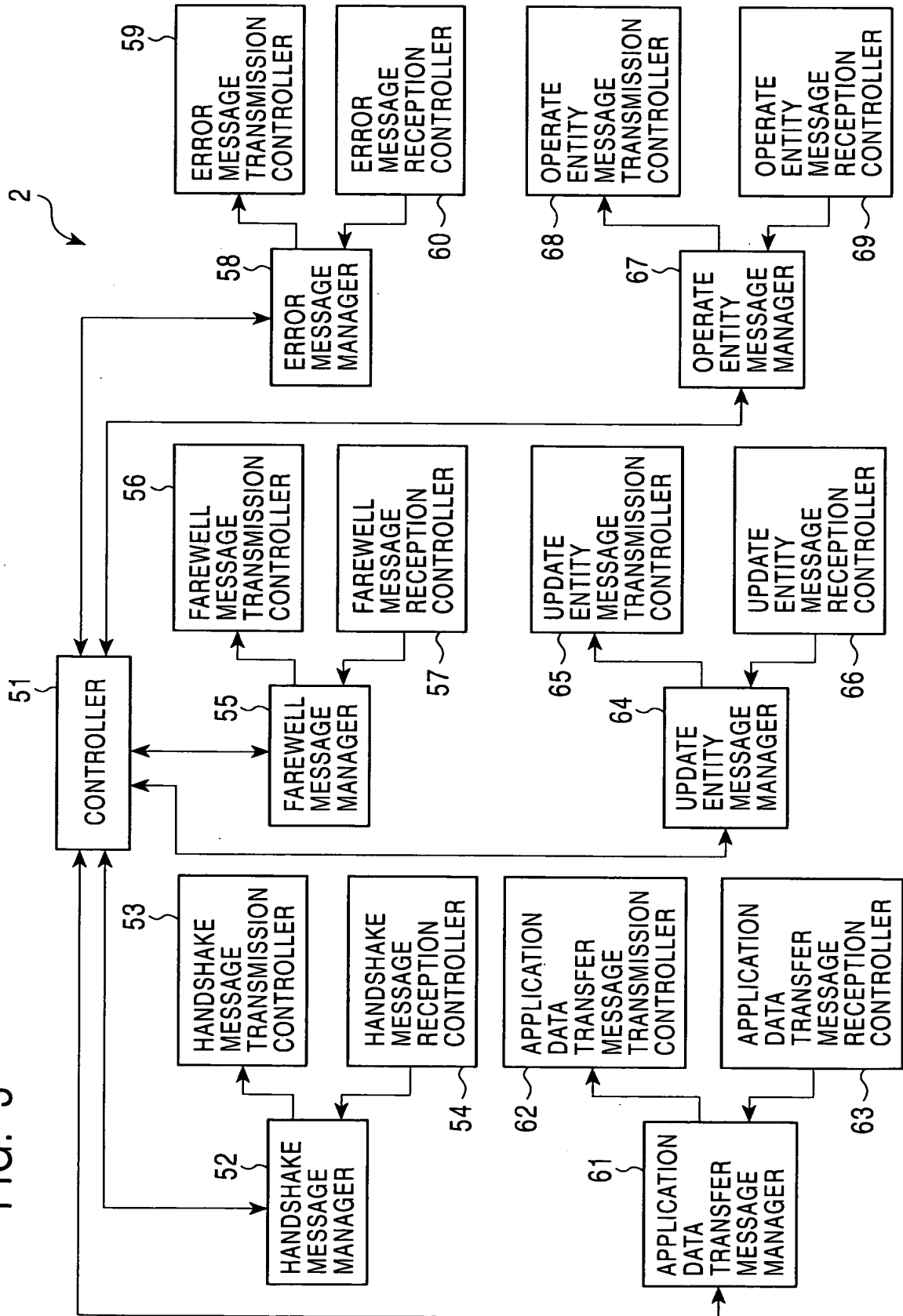
2 / 24

FIG. 2

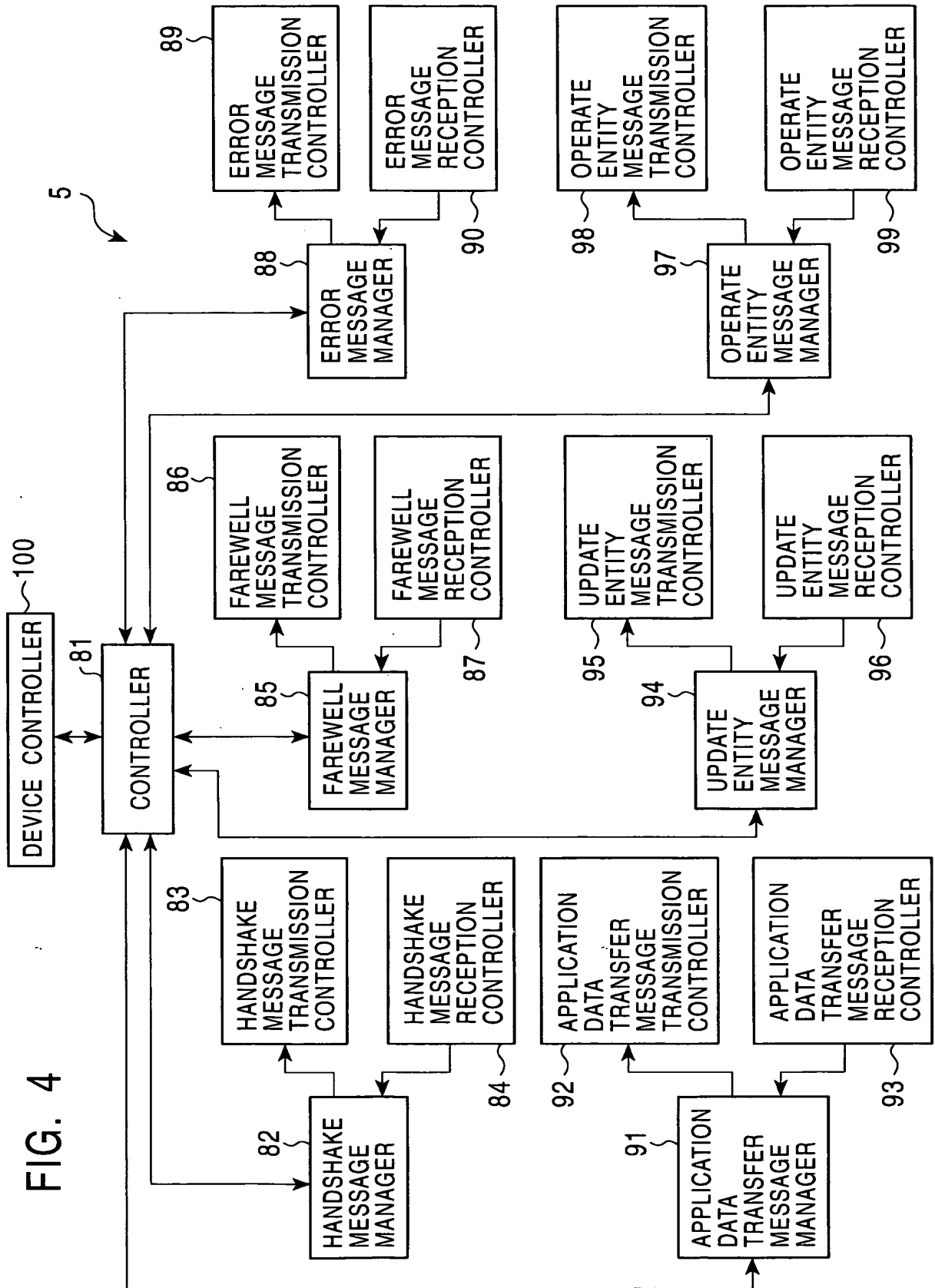


3 / 24

FIG. 3



4 / 24



5 / 24

FIG. 5

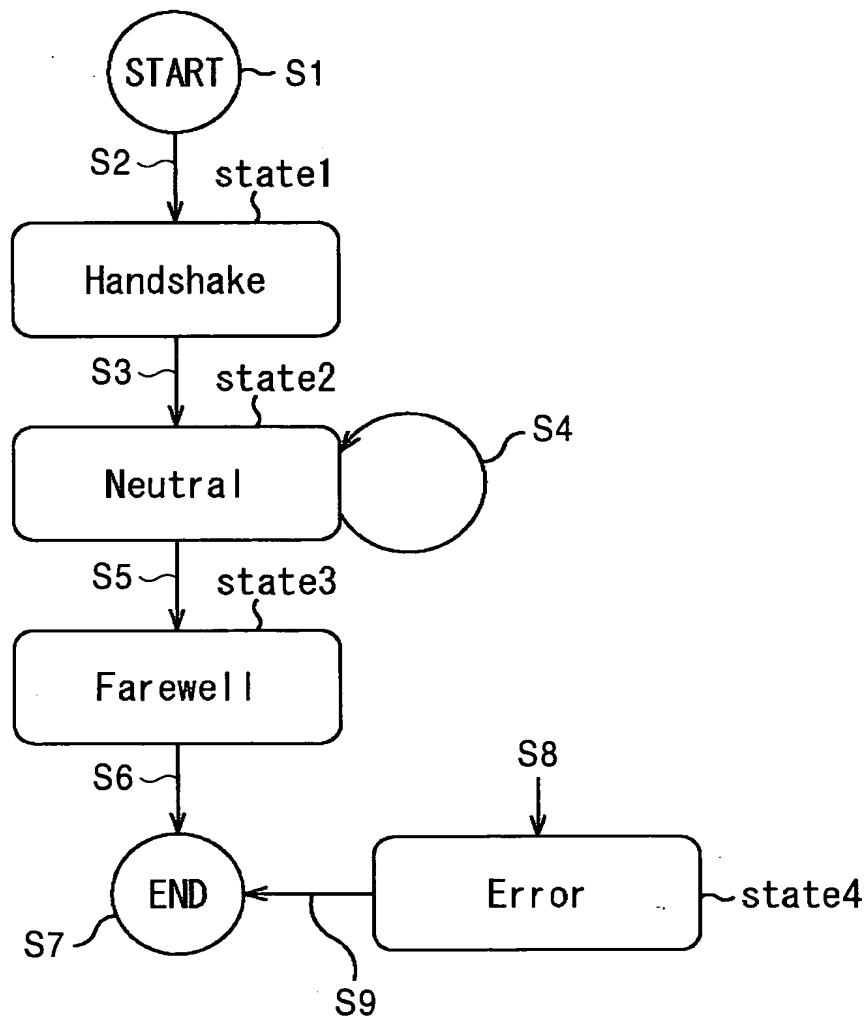
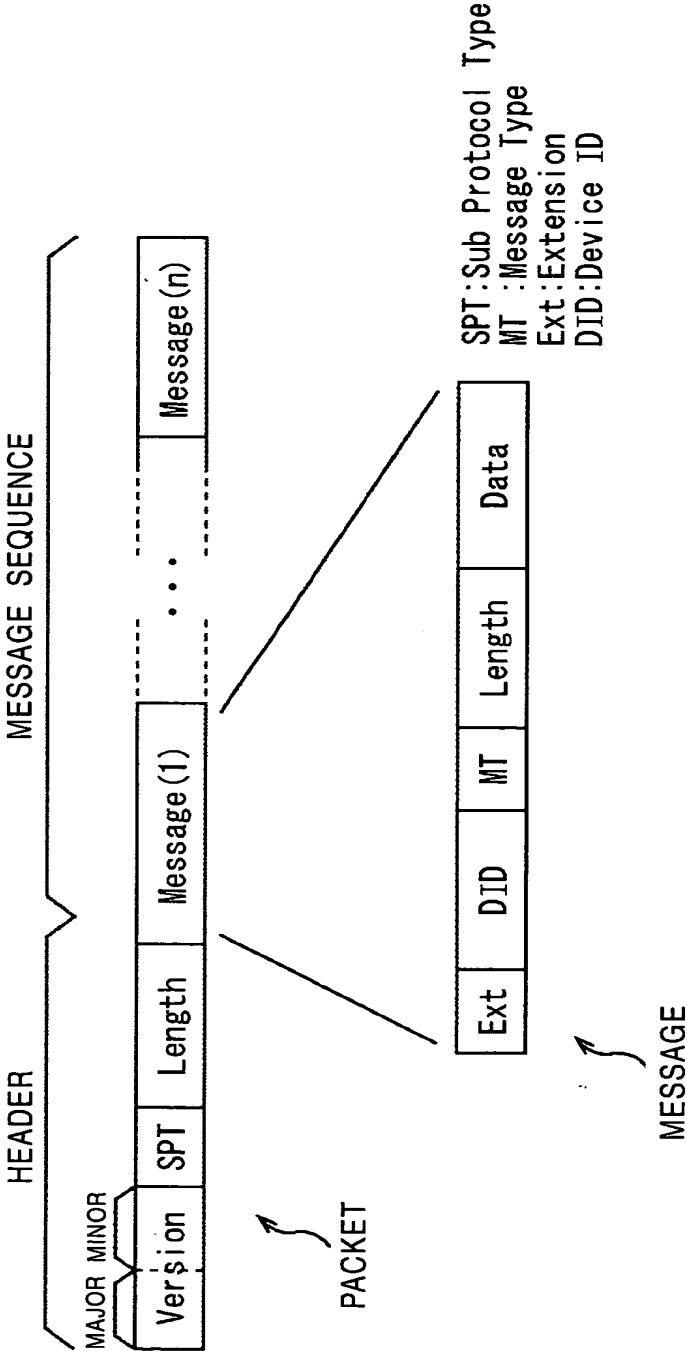


FIG. 6



7 / 24

FIG. 7

HANDSHAKE PROTOCOL		
MESSAGE NAME	DESCRIPTION	DATA PART
FINISHED	END OF SUB-PROTOCOL	NONE
WARNING	WARNING	WARNING MESSAGE: CHARACTER STRING
CLIENT_HELLO	START OF TRANSMISSION OF HANDSHAKE DATA ADDRESSED TO SERVER	NONE
CLIENT_HELLO_DONE	END OF TRANSMISSION OF HANDSHAKE DATA ADDRESSED TO SERVER	NONE
SERVER_HELLO	START OF TRANSMISSION OF HANDSHAKE DATA ADDRESSED TO CLIENT	NONE
SERVER_HELLO_DONE	END OF TRANSMISSION OF HANDSHAKE DATA ADDRESSED TO CLIENT	NONE
DEVICES	NOTICE OF DEVICE LIST	<ul style="list-style-type: none"> <li>•DEVICE ID</li> <li>•PERMISSION</li> <li>•TYPE NAME LENGTH</li> <li>•TYPE NAME</li> <li>•DEVICE NAME LENGTH</li> <li>•DEVICE NAME</li> </ul>

8 / 24

FIG. 8

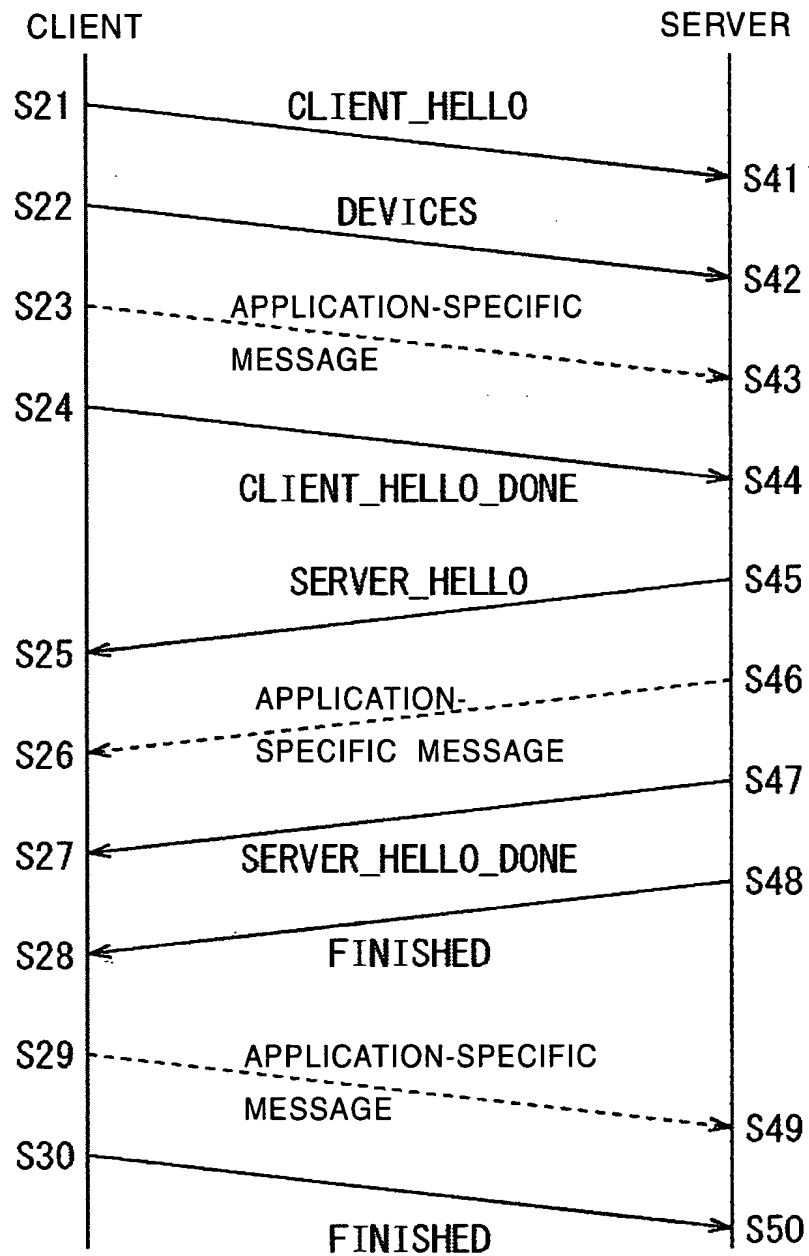




FIG. 9

FAREWELL PROTOCOL		
MESSAGE NAME	DESCRIPTION	DATA PART
FINISHED	END OF SUB-PROTOCOL	NONE
WARNING	WARNING	WARNING MESSAGE: CHARACTER STRING
CLIENT_GOOD_BYE	START OF TRANSMISSION OF FAREWELL DATA ADDRESSED TO SERVER	NONE
CLIENT_GOOD_BYE_ DONE	END OF TRANSMISSION OF FAREWELL DATA ADDRESSED TO SERVER	NONE
SERVER_GOOD_BYE	START OF TRANSMISSION OF FAREWELL DATA ADDRESSED TO CLIENT	NONE
SERVER_GOOD_BYE_ DONE	END OF TRANSMISSION OF FAREWELL DATA ADDRESSED TO CLIENT	NONE
RETURN_CODE	NOTICE OF SERVER END CODE	END CODE

10 / 24

FIG. 10

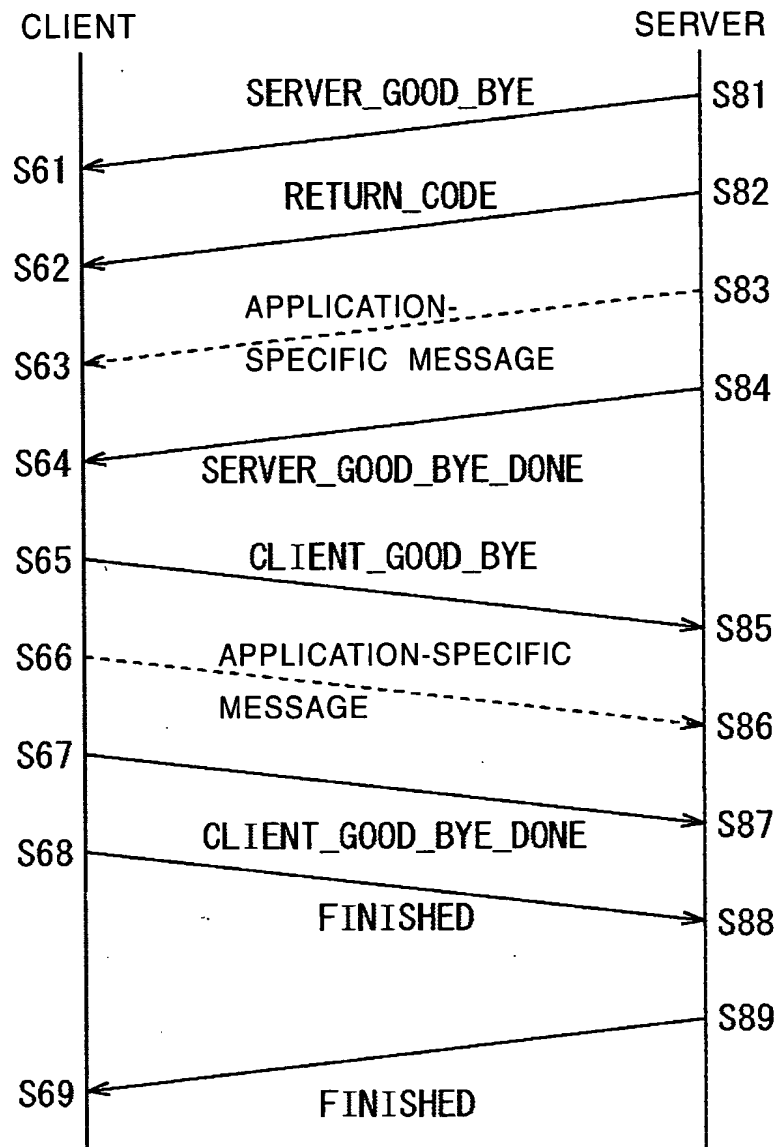


FIG. 11

ERROR PROTOCOL		
MESSAGE NAME	DESCRIPTION	DATA PART
FINISHED	END OF SUB-PROTOCOL	NONE
WARNING	WARNING	WARNING MESSAGE: CHARACTER STRING
PACKET_FORMAT_ERROR	FORMAT ERROR	ERROR MESSAGE: CHARACTER STRING
ILLEGAL_STATE_ERROR	ILLEGAL STATE ERROR DETECTED	ERROR MESSAGE: CHARACTER STRING
UNEXPECTED_ERROR	UNEXPECTED ERROR OCCURRED	ERROR MESSAGE: CHARACTER STRING

12 / 24

FIG. 12

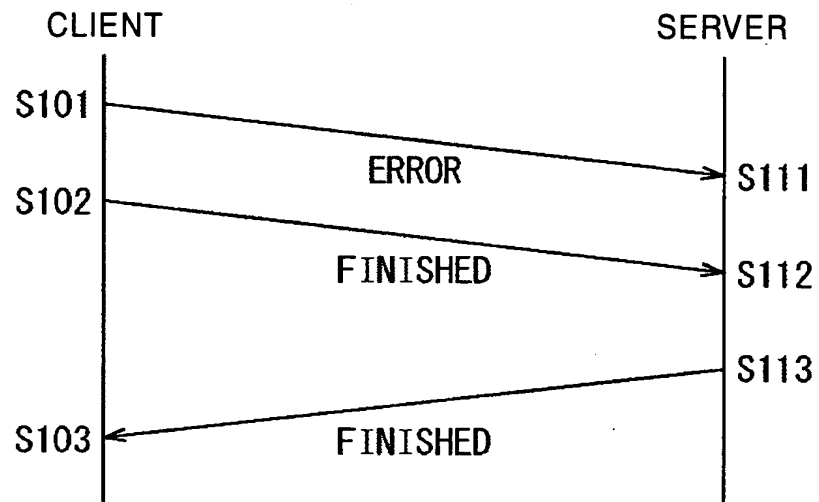
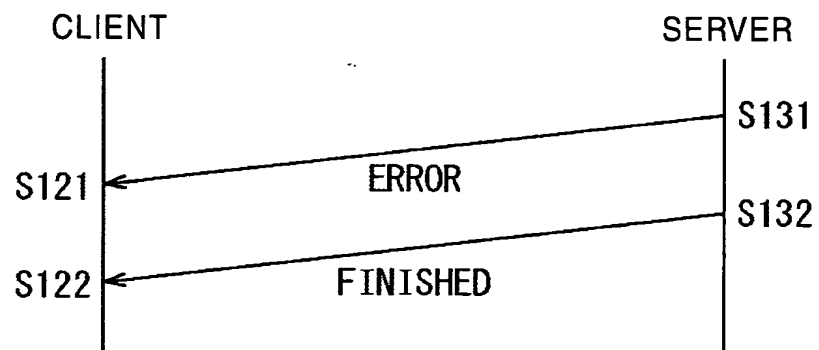


FIG. 13



13 / 24

FIG. 14

UPDATE ENTITY PROTOCOL		
MESSAGE NAME	DESCRIPTION	DATA PART
FINISHED	END OF PACKET	NONE
WARNING	WARNING	WARNING MESSAGE: CHARACTER STRING
SET_PROPERTY	SET PROPERTY OF CLIENT DEVICE RESPONSE: PROPERTY_SET WHEN FAILED: TERMINATE	<ul style="list-style-type: none"> <li>PROPERTY NAME LENGTH</li> <li>PROPERTY NAME</li> <li>PROPERTY LENGTH</li> <li>PROPERTY</li> </ul>
PROPERTY_SET	RESPONSE TO PROPERTY_SET	SUCCESS FLAG
GET_PROPERTY	GET PROPERTY OF CLIENT DEVICE RESPONSE: PROPERTY_SET WHEN FAILED: TERMINATE	<ul style="list-style-type: none"> <li>PROPERTY NAME LENGTH</li> <li>PROPERTY NAME</li> </ul>
PROPERTY	RESPONSE TO GET_PROPERTY	<ul style="list-style-type: none"> <li>PROPERTY LENGTH</li> <li>PROPERTY</li> </ul>
SET_NETWORK_TIMEOUT	SET NETWORK TIMEOUT VALUE OF CLIENT RESPONSE: NONE WHEN FAILED: CONTINUE	<ul style="list-style-type: none"> <li>TIMEOUT VALUE (msec)</li> </ul>

14 / 24

FIG. 15

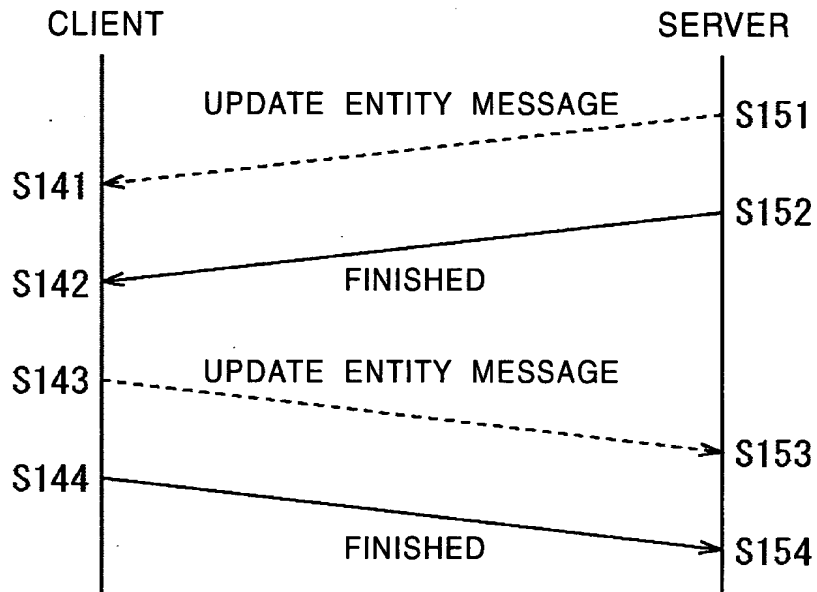


FIG. 16

APPLICATION DATA TRANSFER PROTOCOL	
MESSAGE NAME	DESCRIPTION
FINISHED	END OF PACKET
WARNING	WARNING

FIG. 17

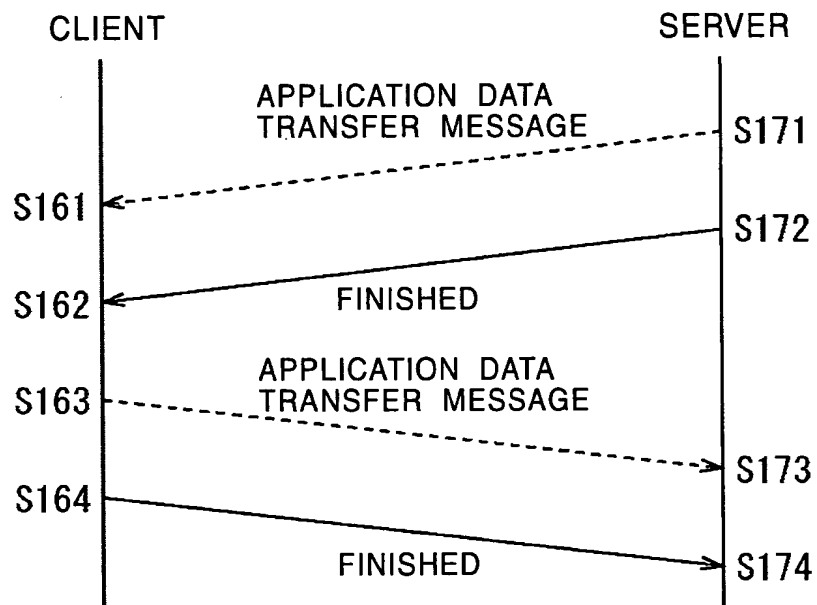


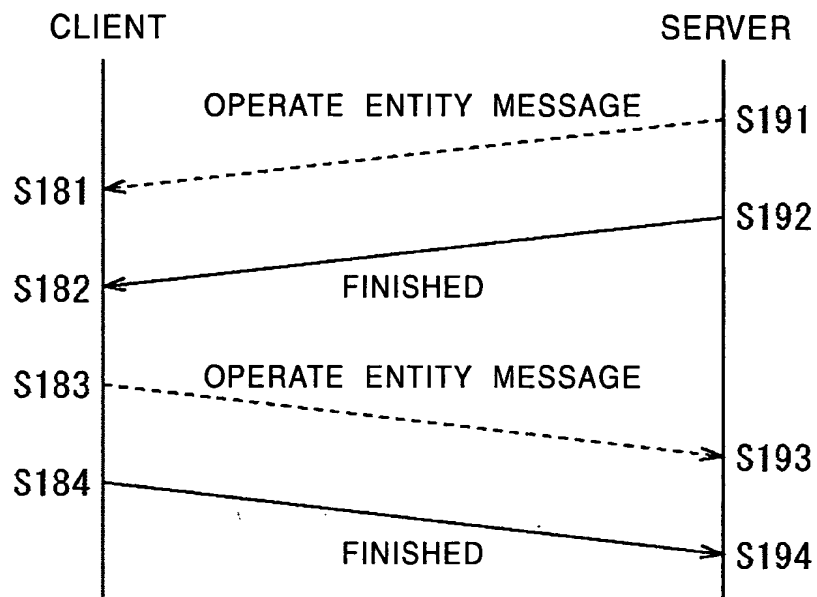
FIG. 18

OPERATE ENTITY PROTOCOL		
MESSAGE NAME	DESCRIPTION	DATA PART
FINISHED	END OF PACKET	NONE
WARNING	WARNING	WARNING MESSAGE: CHARACTER STRING
UPDATE_VIEW	UPDATE OF VIEW RESPONSE: VIEW_UPDATED WHEN FAILED: TERMINATE	NONE
VIEW_UPDATED	RESPONSE TO UPDATE_VIEW	SUCCESS FLAG
BEGIN_DATA_INPUT	BEGIN DATA INPUT RESPONSE: END_DATA_INPUT WHEN FAILED: TERMINATE	NONE
END_DATA_INPUT	RESPONSE TO BEGIN_DATA_INPUT	<ul style="list-style-type: none"> <li>• SUCCESS FLAG</li> <li>• PROPERTY NAME LENGTH</li> <li>• PROPERTY NAME</li> <li>• PROPERTY LENGTH</li> <li>• PROPERTY</li> </ul>
OPERATE_DEVICE	OPERATE CLIENT DEVICE RESPONSE: DEVICE_RESPONSE WHEN FAILED: TERMINATE	<ul style="list-style-type: none"> <li>• NUMBER OF CHARACTERS OF OPERATION NAME</li> <li>• OPERATION NAME</li> <li>• PARAMETER LENGTH</li> <li>• PARAMETER</li> </ul>
DEVICE_RESPONSE	RESPONSE TO DEVICE OPERATION	<ul style="list-style-type: none"> <li>• RESPONSE LENGTH</li> <li>• RESPONSE</li> </ul>
PLAY_SOUND	PRODUCE SOUND CORRESPONDING TO PHYSICAL NAME SPECIFIED BY CLIENT RESPONSE: NONE WHEN FAILED: CONTINUE	PHYSICAL NAME OF SOUND: CHARACTER STRING



17 / 24

FIG. 19



18 / 24

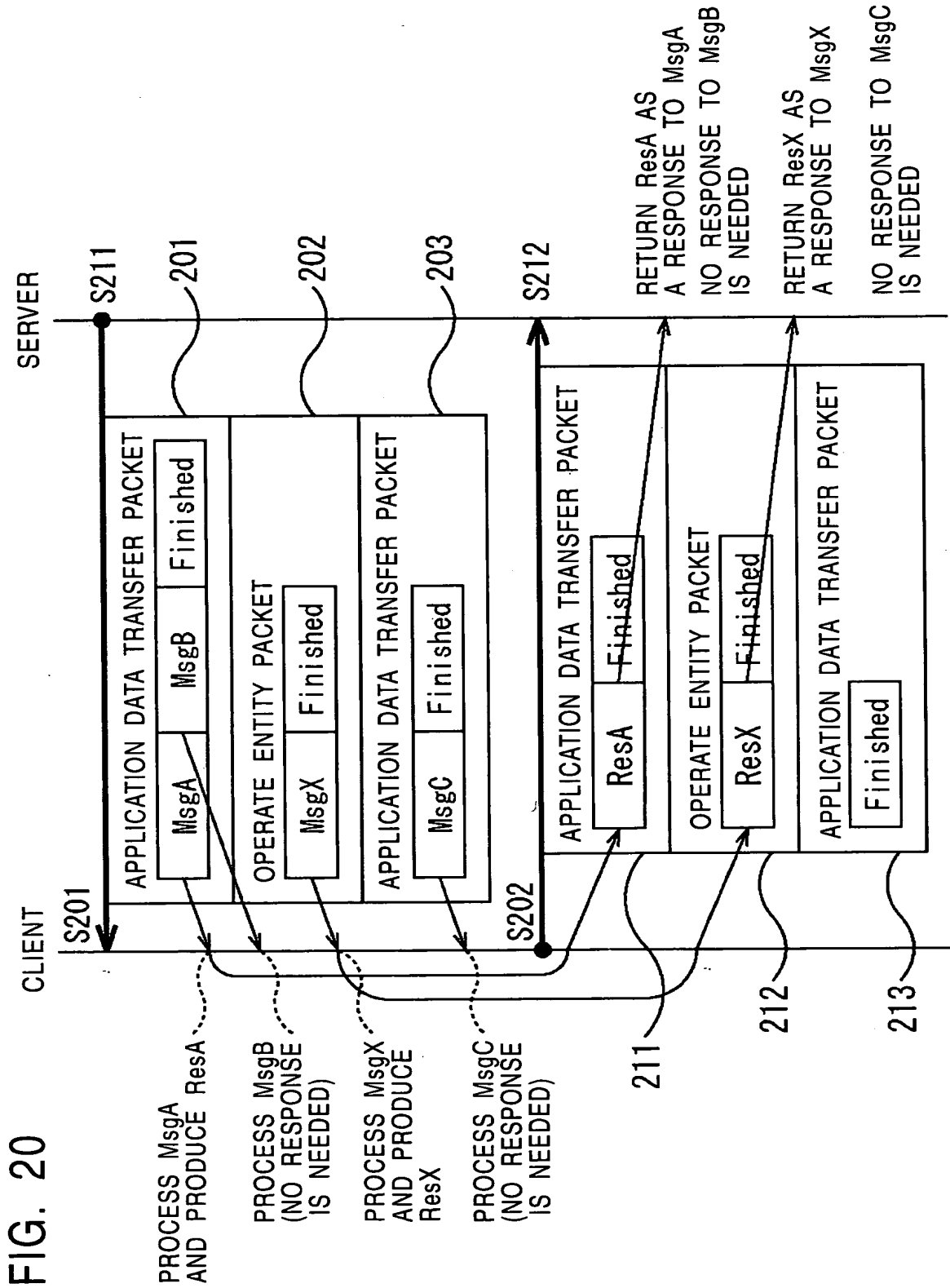
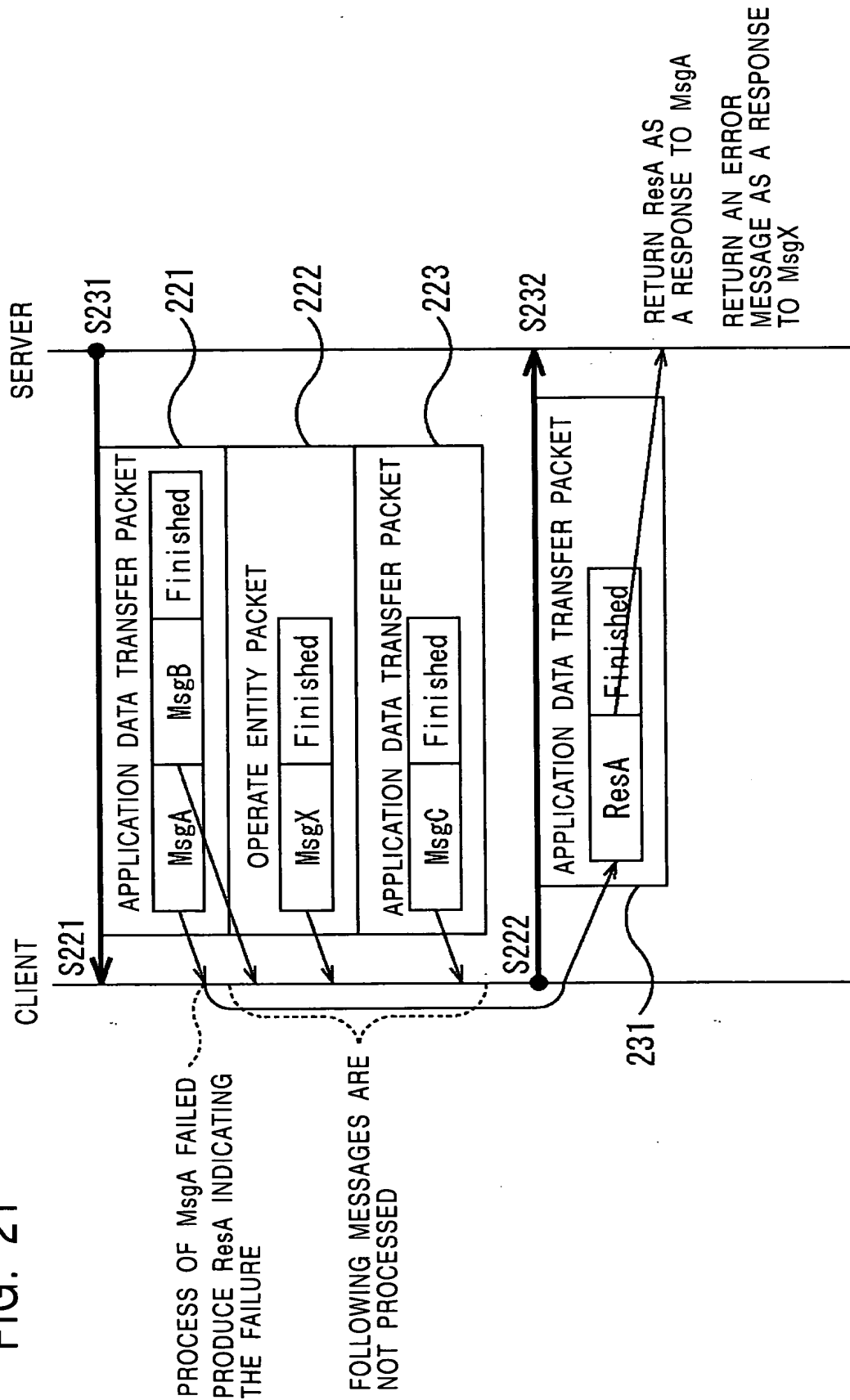
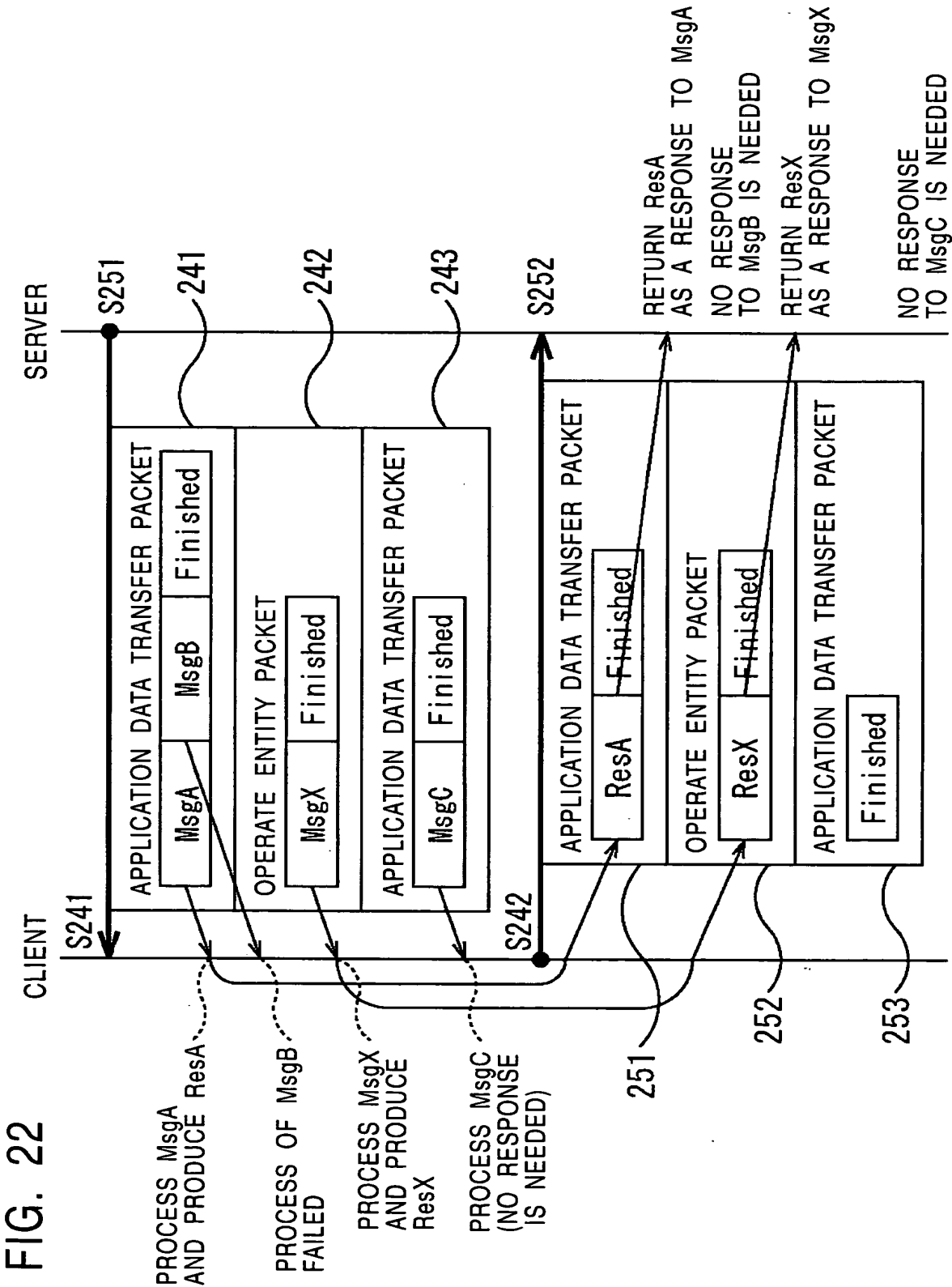


FIG. 21





21 / 24

FIG. 23

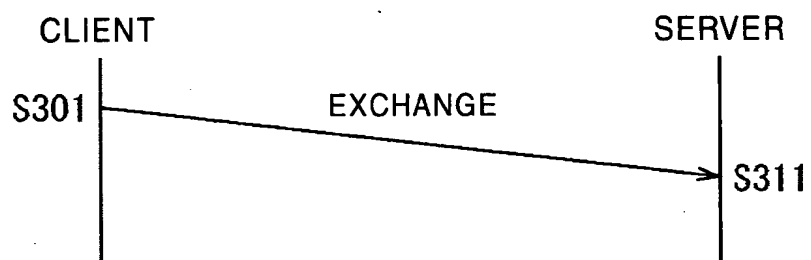
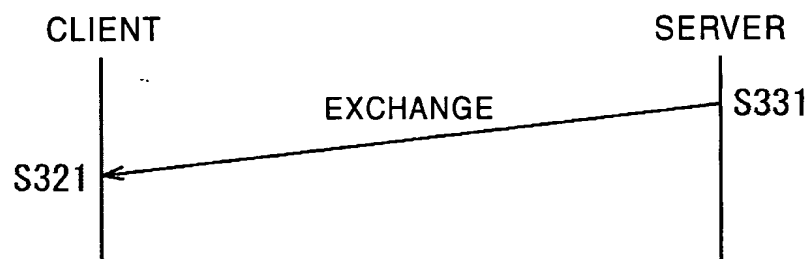
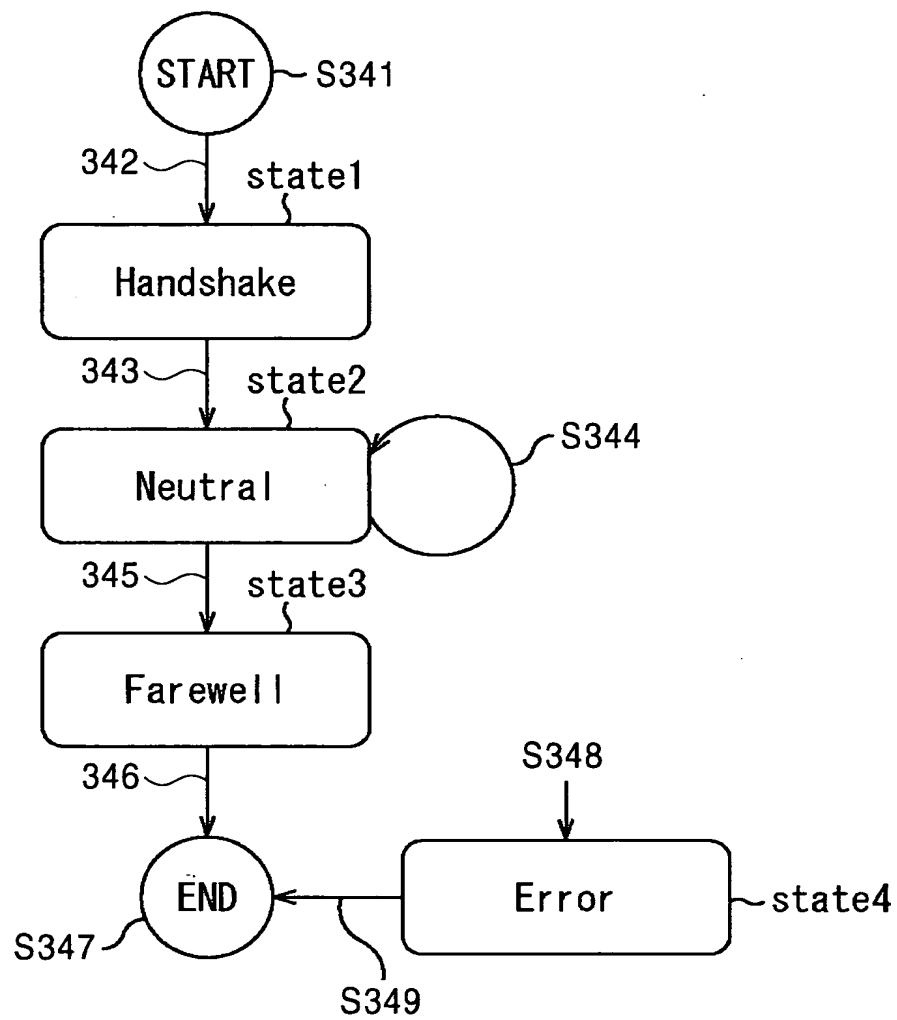


FIG. 24



22 / 24

FIG. 25



23 / 24

FIG. 26

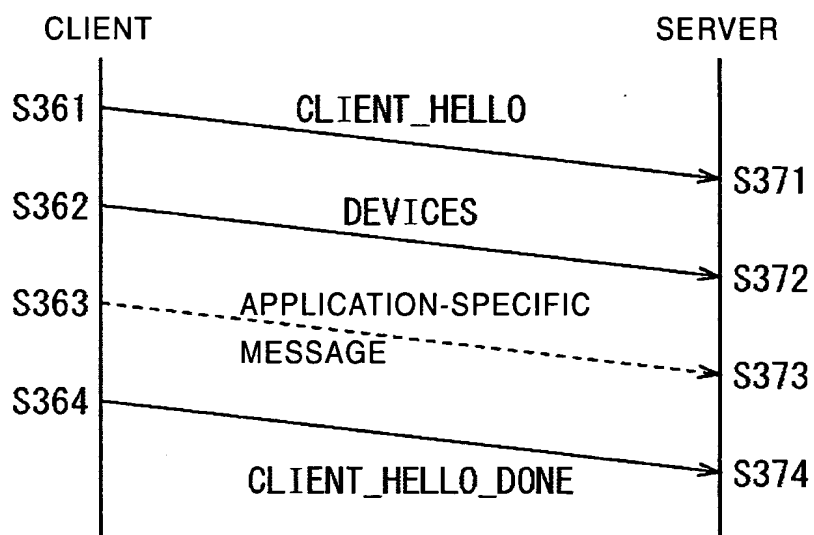


FIG. 27

